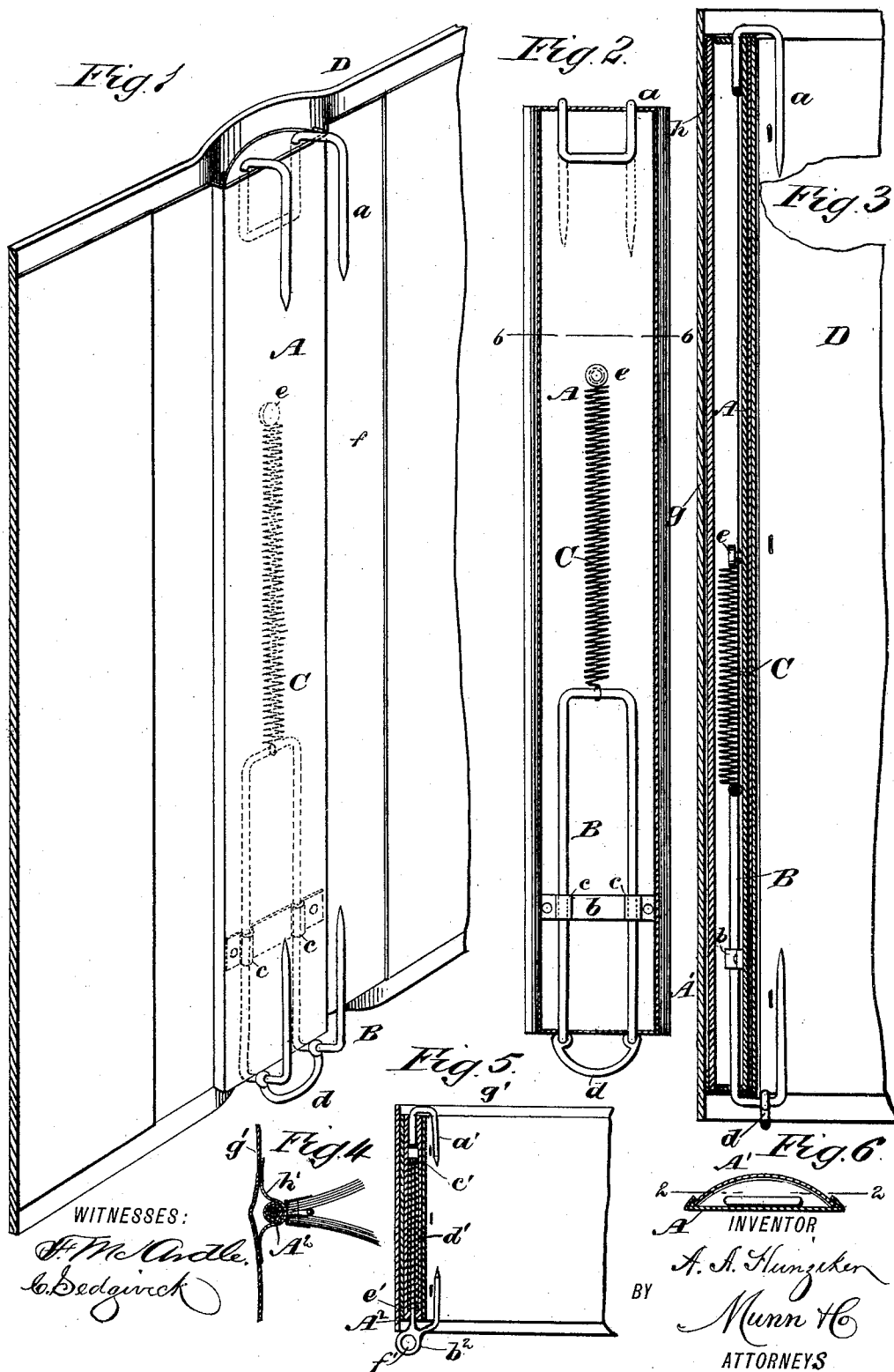


(No Model.)

A. A. HUNZIKER.
TEMPORARY BINDER.

No. 468,199.

Patented Feb. 2, 1892.



UNITED STATES PATENT OFFICE.

ADOLPH A. HUNZIKER, OF ST. LOUIS, MISSOURI.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 468,199, dated February 2, 1892.

Application filed November 3, 1891. Serial No. 410,736. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH A. HUNZIKER, of St. Louis, Missouri, have invented a new and Improved Temporary Binder, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a perspective view of my improved temporary binder. Fig. 2 is a longitudinal section of the binding device, taken on line 2 2 in Fig. 6. Fig. 3 is a longitudinal section. Fig. 4 is a transverse section of a modified form. Fig. 5 is a longitudinal section of the same, and Fig. 6 is a transverse section taken on line 6 6 in Fig. 2.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to construct a simple and efficient binder for temporarily binding magazines, loose pamphlets, blank books, &c.

My invention consists in a back-support, one or more fixed hooks adapted to enter between the leaves of the pamphlet, one or more spring-actuated sliding hooks, and a cover, all as will be hereinafter more fully described.

The back of the binder consists of a plate A, of metal or other suitable material, having its edges bent over toward the center thereof to receive the edges of the convex plate A', which forms a cover to the working parts and gives suitable form to the back of the binder. To one end of the plate A is attached a double hook a, formed of a right-angled loop of wire bent over and returned parallel with itself with its free ends pointed. The said double hook passes through perforations in the angled end of the plate A. To the back of the plate, near the opposite end, is secured a strip b, which is bent into loops c, forming, together with the perforated angled end of the plate A, guides for the sliding hook B, the said sliding hook being made of a wire bent into the form of a rectangular loop, and then bent or returned parallel with itself, so that the outer ends of the sliding hook extend over the face of the plate A and parallel therewith. For convenience in handling, a loop d is attached to the arms of the hook B. The extremities of the wire forming the hooks are pointed, so that they will readily enter between the leaves of a book or pamphlet. One end of

a spiral spring C is attached to the hook B, and the other end of the spring is attached to a stud e, projecting from the back of the plate A.

The plate A, with its cover A', is inserted in the back of the cover D and held in place by a strip f of leather, and the spring and movable parts of the binder are covered by the back portion of the cover.

By drawing out the double hook B and placing the magazine or pamphlet on the double hook a, allowing the pointed ends of the said hook to enter between the leaves of the pamphlet and then allowing the pointed ends of the double hook B to enter between the leaves of the pamphlet, the pamphlet is secured in place in the binder.

Where it is desired to attach my improvement to a memorandum-book or a single pamphlet, the back of the cover is provided with a tube A², in one end of which is secured the hook a', formed of a piece of wire bent twice at right angles with the ends parallel, the outer ends being pointed, as shown. In the other end of the tube is inserted a wire b², provided with a head c' on its inner end. A spiral spring d' surrounds the wire b² and presses in one direction against the head c', and in the other direction against a fillet e' in the end of the tube. The wire b² outside of the tube A² is curved to form a loop f', and its extremity is bent parallel with the tube A². The tube A² is held in place in the cover g' by the leather strip h'. By drawing out the wire b² against the pressure of the spring d' and inserting the pamphlet or book, as shown in Fig. 5, with the pointed end of the hook a' between the leaves, and allowing the pointed end of the wire b² to enter between the leaves, as shown, the book is fastened in the cover.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a temporary binder, the combination, with a support provided with one or more pointed hooks adapted to enter between the leaves of a book at one end, of one or more sliding spring-actuated hooks adapted to enter between the leaves at the opposite end, substantially as specified.

2. In a temporary binder, the combination

of the plate A, the sliding hook B, the spring C, drawing the hook inward, the fixed hook *a*, projecting toward hook B, and the cover D, substantially as specified.

- 5 3. In a binder, the combination of the plate A, provided with one or more pointed hooks *a*, the sliding hooks B, the spring C, the transverse strip secured to the back of plate A and

provided with loops *c*, through which the shanks of the hooks B slide, the convex plate 10 A', secured to the plate A by flanges, and the cover D, substantially as specified.

ADOLPH A. HUNZIKER.

Witnesses:

H. O. SIEGMUND,

J. H. HAMET.